

PATENT

PENDING CLAIMS AS AMENDED

Please amend the claims as follows:

1. (Currently Amended) A method for synchronizing a wake up schedule for a ~~Bluetooth~~ BLUETOOTH module and a wakeup schedule for a CDMA module in a wireless mobile unit, said method comprising steps of:
determining a next CDMA wakeup time; and
substantially synchronizing a new ~~Bluetooth~~ BLUETOOTH wakeup time to said next CDMA wakeup time when said next CDMA wakeup time is earlier than a next ~~Bluetooth~~ BLUETOOTH wakeup time.
2. (Currently Amended) The method of claim 1 further comprising:
~~a step of~~ establishing said next ~~Bluetooth~~ BLUETOOTH wakeup time after said determining step and before said synchronizing step.
3. (Currently Amended) The method of claim 1 further comprising steps of:
determining a current CDMA time; and
determining a current ~~Bluetooth~~ BLUETOOTH time.
4. (Currently Amended) The method of claim 3 further comprising:
~~a step of~~ determining a CDMA interval, said CDMA interval equaling said next CDMA wakeup time minus said current CDMA time.
5. (Currently Amended) A method for synchronizing a wakeup schedule for a BLUETOOTH module and a wakeup schedule for a CDMA module in a wireless mobile unit, said method comprising:
determining a current CDMA time; and
determining a current BLUETOOTH time
determining a next CDMA wakeup time;

Attorney Docket No.: 010353

Customer No.: 23696

2

PATENT

determining a CDMA interval, said CDMA interval equaling said next CDMA wakeup time minus said current CDMA time;

synchronizing a new BLUETOOTH wakeup time to said next CDMA wakeup time[The method of claim 4 further comprising a step of synchronizing said new Bluetooth-wakeup time to said next CDMA wakeup time] when said current ~~Bluetooth~~-BLUETOOTH time plus said CDMA interval is less than said next ~~Bluetooth~~-BLUETOOTH time.

6. (Currently Amended) The method of claim 1 further comprising:

~~a step of performing a Bluetooth~~-BLUETOOTH wakeup process and a CDMA wakeup process substantially at said new ~~Bluetooth~~-BLUETOOTH wakeup time.

7. (Currently Amended) The method of claim 6 wherein said performing step comprises a step of powering on said ~~Bluetooth~~-BLUETOOTH module and said CDMA module substantially simultaneously so as to reduce said wireless mobile unit's power consumption.

8. (Currently Amended) A method for synchronizing a wakeup schedule for a ~~Bluetooth~~-BLUETOOTH module and a wakeup schedule for a CDMA module in a wireless mobile unit, said method comprising steps of:

determining a current CDMA time and a current ~~Bluetooth~~-BLUETOOTH time;

calculating a CDMA interval, said CDMA interval equaling a next CDMA wakeup time less said current CDMA time; and

substantially synchronizing a new Bluetooth-BLUETOOTH wakeup time to said next CDMA wakeup time when said current ~~Bluetooth~~-BLUETOOTH time plus said CDMA interval is less than a next ~~Bluetooth~~-BLUETOOTH time.

9. (Currently Amended) The method of claim 8 further comprising ~~steps of~~:

establishing said next CDMA wakeup time prior to said step of calculating said CDMA time interval; and

establishing said next ~~Bluetooth~~-BLUETOOTH wakeup time prior to said step of synchronizing said new ~~Bluetooth~~-BLUETOOTH time.

PATENT

10. (Currently Amended) The method of claim 8 further comprising:
a step of performing a ~~Bluetooth~~-BLUETOOTH wakeup process and a CDMA wakeup process substantially at said new ~~Bluetooth~~-BLUETOOTH wakeup time.
11. (Currently Amended) The method of claim 10, wherein said performing step comprises:
a step of powering on said ~~Bluetooth~~-BLUETOOTH module and said CDMA module substantially simultaneously so as to reduce said wireless mobile unit's power consumption.
12. (Currently Amended) The method of claim 8, wherein said wireless mobile unit comprises a ~~Bluetooth~~-BLUETOOTH-enabled CDMA cell phone.
13. (Currently Amended) A wireless mobile unit, comprising:
a CDMA module configured to perform a CDMA wakeup process at a next CDMA wakeup time; and
a processor configured to substantially synchronize a new ~~Bluetooth~~-BLUETOOTH wakeup time to said next CDMA wakeup time when said next CDMA wakeup time is earlier than a next ~~Bluetooth~~-BLUETOOTH wakeup time.
14. (Currently Amended) The wireless mobile unit of claim 13, further comprising: a ~~Bluetooth~~-BLUETOOTH module configured to perform a ~~Bluetooth~~-BLUETOOTH wakeup process.
15. (Currently Amended) The wireless mobile unit of claim 14, wherein said ~~Bluetooth~~-BLUETOOTH module is configured to perform said ~~Bluetooth~~-BLUETOOTH wakeup process at said new ~~Bluetooth~~-BLUETOOTH wakeup time when said next CDMA wakeup time is earlier than said next ~~Bluetooth~~-BLUETOOTH wakeup time.

PATENT

16. (Currently Amended) The wireless mobile unit of claim 13, wherein said CDMA module comprises a CDMA transmitter/receiver and a CDMA antenna, said CDMA transmitter/receiver and said CDMA antenna being configured to receive a pilot signal from a base station so as to synchronize said CDMA module with said base station.

17. (Currently Amended) The wireless mobile unit of claim 16, wherein said CDMA module is further configured to derive a current CDMA time from said pilot signal.

18. (Currently Amended) The wireless mobile unit of claim 17, wherein said ~~Bluetooth~~ BLUETOOTH module comprises a clock, said clock being configured to track a current ~~Bluetooth~~ BLUETOOTH time.

19. (Currently Amended) The wireless mobile unit of claim 13, wherein said processor is further configured to calculate a CDMA interval, said CDMA interval equaling said next CDMA wakeup time minus said current CDMA time.

20. (Currently Amended) A wireless mobile unit, comprising:
a CDMA module comprising a CDMA transmitter/receiver and a CDMA antenna, said
CDMA transmitter/receiver and said CDMA antenna being configured to receive a pilot signal,
said CDMA module configured to:

perform a CDMA wakeup process at a next CDMA wakeup time,

derive a current CDMA time from said pilot signal;

a BLUETOOTH module comprising a clock configured to track a current BLUETOOTH
time, and

a processor configured to:

calculate a CDMA interval equaling said next CDMA wakeup time minus said
current CDMA time,

[The wireless mobile unit of claim 19 wherein said processor is further configured
to]

PATENT

substantially synchronize a [said] new ~~Bluetooth~~-BLUETOOTH wakeup time to a [said] next CDMA wakeup time when said current ~~Bluetooth~~-BLUETOOTH time plus said CDMA interval is less than a [said] next ~~Bluetooth~~-BLUETOOTH time.

21. (Currently Amended) The wireless mobile unit of claim 14, wherein said CDMA module performs said CDMA wakeup process and said ~~Bluetooth~~-BLUETOOTH module performs said ~~Bluetooth~~-BLUETOOTH wakeup process substantially at said new ~~Bluetooth~~-BLUETOOTH wakeup time.

22. (Currently Amended) The wireless mobile unit of claim 21, wherein said CDMA module and said ~~Bluetooth~~-BLUETOOTH module are configured to power on substantially simultaneously so as to reduce said wireless mobile unit's power consumption.

23. (Currently Amended) The wireless mobile unit of claim 13, wherein said wireless mobile unit is a ~~Bluetooth~~-BLUETOOTH-enabled CDMA cell phone.

24. (Currently Amended) A wireless unit, comprising:
a means for performing a CDMA wakeup process at a next CDMA wakeup time; and
a means for substantially synchronizing a new ~~Bluetooth~~-BLUETOOTH wakeup time to said next CDMA wakeup time when said next CDMA wakeup time is earlier than a next ~~Bluetooth~~-BLUETOOTH wakeup time.

25. (Currently Amended) A wireless mobile unit, comprising:
a memory means; and
a means for performing a CDMA wakeup process at a next CDMA wakeup time and for substantially synchronizing a new ~~Bluetooth~~-BLUETOOTH wakeup time to said next CDMA wakeup time when said next CDMA wakeup time is earlier than a next ~~Bluetooth~~-BLUETOOTH wakeup time.

26. (Currently Amended) A digital signals processing apparatus, comprising:

PATENT

a memory means for storing digital data; and

a digital signal processing means for interpreting digital signals to synchronize a wakeup schedule for a ~~Bluetooth~~-BLUETOOTH module and a wakeup schedule for a CDMA module in a wireless mobile unit by:

determining a next CDMA wakeup time; and

substantially synchronizing a new ~~Bluetooth~~-BLUETOOTH wakeup time to said next CDMA wakeup time when said next CDMA wakeup time is earlier than a next ~~Bluetooth~~ BLUETOOTH wakeup time.

27. (Currently Amended) The apparatus of claim 26, wherein said digital signal processing means ~~further interpreting~~ interprets digital signals to establish said next ~~Bluetooth~~ BLUETOOTH wakeup time after said determining a next CDMA wakeup time and before said synchronizing a new ~~Bluetooth~~ BLUETOOTH wakeup time.